

## CLAIMS

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ART 34 AND F

1. A light guiding panel which is made as a transparent substrate of a thin hexahedron shape and reflects source light that is incident through at least one side so that the light is emitted to the front surface of the substrate, wherein  
5 countless minute recesses are formed on the bottom surface of the substrate in order to reflect the source light to the front surface, and the density, average depth, and average size of the recesses gradually increase respectively, as a distance from the vicinity of the side, through which the source light is incident,  
10 increases.
2. The light guiding panel of claim 1, wherein the area of each of the recesses also gradually increases as a distance from the vicinity of the side, through which the source light is incident, increases.
- 15 3. The light guiding panel of claim 1, wherein the average complexity of the contours of the recesses and a recess surface profile gradually increases as a distance from the vicinity of the side, through which the source light is incident, increases.
- 20 4. The light guiding panel of claim 1, wherein the recesses of the substrate are formed by a sandblasting method and the sandblasting method is a method by which a constant amount of minute particles injected in a unit time is maintained and the number of sands impinging on a unit area of the bottom  
25 surface of the substrate in a unit time and the impact of the sands gradually increase as a distance from the vicinity of the side, through which the source light is incident, increases.

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5. The light guiding panel of claim 4, wherein when recesses are processed by using the sandblasting method, in order to maintain a constant amount of injected minute particles, minute particles are made to follow a stage of free-falling in a process for injecting the minute particles.

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6. The light guiding panel of claim 1, wherein the transparent substrate is made of acryl resin.

7. The light guiding panel of claim 1, wherein the recesses are a minute size that is hardly seen with the naked eye and light spots that can be seen with the naked eye do not appear on the front surface of the light guiding panel even without placing a diffusion sheet thereon.

8. A backlight apparatus using the light guiding panel having recesses formed thereon of any one of claims 1 through 7, comprising:

a tube optical source which is arranged parallel to and along at least any one side or both sides of the light guiding panel, and if electric power is supplied, generates light so that the light is incident into the light guiding panel through the side of the light guiding panel;

a reflection hat which surrounds the optical source such that the light of the optical source is reflected into the light guiding panel;

a bottom surface reflection plate which is attached to the bottom surface of the light guiding panel so as to reflect light which passes through the bottom surface, back into the light guiding panel; and

a side reflection plate which is attached to sides of the light guiding panel, at which the optical source is not installed, and reflects light incident on the side reflection plate into the light guiding panel,